



# ANNAMACHARYA UNIVERSITY

EXCELLENCE IN EDUCATION; SERVICE TO SOCIETY  
(ESTD, UNDER AP PRIVATE UNIVERSITIES (ESTABLISHMENT AND REGULATION) ACT, 2016)  
Rajampet, Annamayya District, A.P – 516126, INDIA

## Faculty Profile

### Basic Information:

NAME : Dr. K. Ramesh abu  
DESIGNATION : Assistant professor  
DEPARTMENT: H&S (Mathematics)  
DATE OF BIRTH : 10.06.1978  
DATE OF JOINING : 14.06.2019  
EMAIL ID : rameshmaths01@gmail.com  
EMPLOYEE ID: :1409



### Academic Profile:

Qualification	Name of the Board/University	YEAR
Ph.D	S.V. UNIVERSITY, TIRUPATI	2014
M.Phil	S.V. UNIVERSITY, TIRUPATI	2008
M.Sc	S.V. UNIVERSITY, TIRUPATI	2000
B.Sc	S.V. UNIVERSITY, TIRUPATI	1998
INTER	INERMEDATE BOARD	1995
SSC	SSC BOARD	1993

### Research Details:

1. Areas of Specialization	:	FULUID DYNAMICS
2. No. of Publications	:	16
3. Awards Received	:	NIL
4. Research Guidance		
	No. of PhD Guided:	NIL
	No. of MTech. Guided:	NIL
	No. of B.Tech. Guided:	NIL
5. Details of Professional Membership:		NIL



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6. Subjects Taught	:	Matrix theory and calculus Differential Equations and vector calculus Numerical methods Complex variables Probability and Statistics Discrete mathematics Mathematical foundations of computer science (MCA) Operations Research
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## Publication Details:

Title	Publisher	Published Year
Dynamics of Brownian motion and nonlinear mixed convective conditions on thermophoretic slip flow embedded with non-Fourier flux.	World Scientific Publishing Company	2024
Active and passive controls of magnetized nano-fluid	World Scientific Publishing Company	2024
Chemical reaction and hall effects on unsteady flow past an isothermal vertical plate in a rotating fluid with variable mass diffusion	European chemical Bulletin	2023
Effects of nano-fluid on free convective mchehd heat absorbing/generating fluid with variable temperature	European Chemical Bulletin	2023
Radiation effect on mhd free convective heat absorbing newtonian fluid with variable temperature	Neuro Quantology	2022
Parabolic motion effects past an exponentially accelerated on convective heatand mass transfer flow over a vertical plate with cross diffusion	Stochastic Modelling and App	2022
Mass transfer analysis of two-phase flow in a suspension of microorganisms	Archlives of thermo dynamics	2020
Effect of Nonlinear Thermal Radiation, Heat source on MHD 3D Darcy-Farchheimer flow of Nano fluid over a porous medium with chemical reaction	International Journal of Engineering & Technology	2018
Unsteady mhd free convection Jeffery fluid flow of radiating and reacting past a vertical porous plate in slip-flow regime with heat source,	Frontiers in Heat and Mass Transfer	2018
Unsteady MHD Mixed Convection Flow of Jeffrey fluid Past a radiating inclined Permeable Moving Plate in the Presence of Thermophoresis Heat Generation and Chemical Reaction	Journal of Ultra scientist of Physical Sciences	2018
Unsteady MHD free convective flow of a Visco-elastic fluid past an infinite vertical porous moving plate with variable temperature and concentration	International Journal of Applied and Computational Mathematics	2017
Effect of chemical reaction on Unsteady heat and mass transfer in a vertical wavy channel with oscillatory flux and heat source.	Asian Journal of Current Engineering and Maths	2016



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Effects of chemical reaction and radiation on MHD flow of a viscous fluid in a vertical channel with non-uniform concentration	International Journal of Mathematics and Computational Science	2016
Effects of chemical reaction and radiation absorption on mixed convective flow in a circular annulus at constant heat and mass flux.	Advances in Applied Science Research	2014
Effects of chemical reaction and radiation absorption on convective heat and mass transfer in a vertical channel with oscillatory temperature and concentration	International Journal of Mathematical Archive	2013
Effect of dissipation and heat sources on non-Darcy convective heat and mass transfer flow in vertical channel	International Journal of Mathematical Archive	2013